

Greg Goltsov

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ABOUT ME

I'm a data hacker. I combine data engineering, science and full-stack development to build data products that find and answer the most valuable questions. My diverse industry experience includes building scalable backends from scratch, spearheading pragmatic machine learning solutions and always focusing on data-driven approaches.

Currently I'm single-handedly overhauling Australia's largest media company's data analytics pipeline. Migrating legacy systems to Spark, I'm drastically reducing the time from data collection to insight (from weeks to hours).

Previously, I solely designed and implemented the backend infrastructure, data pipeline and analytics for what became the world's largest community of surgeons operating online – Touch Surgery. We went on to scale the platform from 60,000 to 1,200,000+ users as part of a team of four.

CITIZENSHIP

British Citizen, Russian Citizen

LANGUAGES

Major languages: Python, Clojure/ClojureScript, SQL, Bash

I also have experience developing in: Ruby, JavaScript, C#, C, C++, Java, Matlab

TECHNOLOGIES

PySpark (Databricks), AWS Redshift, AWS S3, Pandas, Scikit-learn, Ansible, Re-frame, PostgreSQL, PostGIS, Django, Flask, D3.js, Elasticsearch, Carto, Git, Unity, LaTeX, Emacs

EXPERIENCE**Senior Data Engineer, *Southern Cross Austereo***

January 2017 — present

- Singlehandedly overhauled existing data analytics architecture for SouthernCross Austero (Australia's largest media company) by using Apache Spark
- Provided before-unseen data insights for radio media industry
- Drastically reduced the speed of data analysis from weeks to hours
- Brought modernity and best practices through unit testing and reproducibility
- Organised the data team of four, championing Scrum

Data Scientist (contract), *Appear Here*

May 2016 — January 2017

- Spearheaded the development of machine-learning suggestion system to increase market uptake
- Self-directed, and managed the research & development of the project, within the first week of joining

- Produced and visualised insights for fund-raising decks

Analytics Scientist (Lead since January 2016), Touch Surgery

July 2013 — April 2016

- Built much of the infrastructure and the data pipelines, starting with 60,000 users, later scaling to 1,200,000+
- Designed and built dashboards and reporting for Touch Surgery's *Fortune 10* clients.
- Worked closely with business and design teams on end-to-end feature development
- Prepared and gave product presentations to clients, including *Covidien, Johnson & Johnson*

Research Assistant, University of Abertay Dundee

2011, 2012 (4 months)

- Computational Image Analysis Methods of Breast Cancer Tumour Spheroids (Java, ImageJ)
- Interactive simulation of blood clotting dynamics (C++, Boost, OpenGL)
- Supervised by Dr Anne Savage, Dr Adam Sampson

Research Assistant, University of Edinburgh

2010, 2011 (4 months)

- Designed and implemented iPad version of [DERMOFIT project](#)
- Built a prototype gesture-based video browser for iPad
- Supervised by Prof Robert Fisher, Dr Victor P. Lavrenko

EDUCATION

BSc (Hons) Computer Games Technology, University of Abertay Dundee

2010–2013

- Graduated with First-class Honours
- World-leading Computer Games Development course, taught in C++, C, Unity
- Heavy focus on applied mathematics and physics, in the context of real-time systems

1st year BSc (Hons) Computer Science and Physics, University of Edinburgh

2009–2010

- Studied Theoretical Computer Science, Pure and Applied Mathematics, Physics
- Attended 1st year, then decided to change specialisation

REFERENCES

Kevin Morrell, *Head of Data and Analytics at Southern Cross Austereo*

Dave Nolan, *Engineering Manager at Facebook*

Dr Andre Chow, *COO at Touch Surgery*

PERSONAL

Hobbies: photography ([500px](#), [Instagram](#)), cycling, travelling, coffee.

Languages: Russian (native), English (fluent).